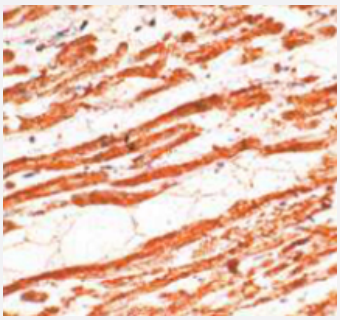
TNNT2 polyclonal antibody

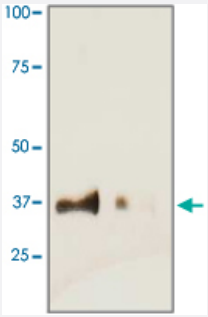
Catalog # PAB12744 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human cardiac muscle stained with TNNT2 polyclonal antibody (Cat # PAB12744) at 1 : 50 for 10 min at RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.



Western Blot (Tissue lysate)

Tissue lysate from mouse heart was resolved onto 12% SDS-PAGE and transferred onto NC Membrane, then probed by TNNT2 polyclonal antibody (Cat # PAB12744) at 1 : 500, right lane. Left lane was depleted by immunizing peptide.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of TNNT2.
Immunogen	A synthetic peptide corresponding to internal domain of human TNNT2.
Host	Rabbit
Theoretical MW (kDa)	31
Reactivity	Cat, Dog, Human, Mouse, Rabbit
Specificity	This antibody recognizes 31 KDa of TNNT2 by Western blot.
Form	Liquid

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Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300)
Storage Instruction	Store at 4°C. For long term storage store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

- Immunoprecipitation

- Western Blot (Tissue lysate)

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Gene Info — TNNT2

Entrez GeneID	7139
Gene Name	TNNT2
Gene Alias	CMH2, CMPD2, MGC3889, RCM3, TnTC, cTnT
Gene Description	troponin T type 2 (cardiac)
Omim ID	115195 191045 601494
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. [provided by RefSeq
Other Designations	OTTHUMP00000033864|OTTHUMP00000033867|cardiomyopathy, dilated 1D (autosomal dominant)|cardiomyopathy, hypertrophic 2|troponin T type 2, cardiac|troponin T, cardiac muscle|troponin T2, cardiac

Pathway

- Cardiac muscle contraction
- Hypertrophic cardiomyopathy (HCM)

Disease

- Cardiomegaly
- Cardiomyopathies
- Cardiomyopathy
- Cardiovascular Diseases
- Death
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Hypertrophy
- Lipid Metabolism
- Mitochondrial Myopathies
- Tachycardia

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